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AMIN & TUROCY, LLP			EXAMI	IER	
		NATIONAL CITY CE ITH STREET	ENTER	GROSS, KE	NNETH A
CLI	EVELAND, (OH 44114		ART UNIT PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	•				
•		09/686,033	CHILES ET AL.					
	Offic Action Summary	Examiner	Art Unit					
		Kenneth A Gross	2122					
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet	with the correspondence address					
THE N - Exter after - If the - If NO - Failur - Any re	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Assions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may ly within the statutory minimum of the will apply and will expire SIX (6) Monday, cause the application to become	a reply be timely filed nirly (30) days will be considered timely. DNTHS from the mailing date of this communicatio ABANDONED (35 U.S.C. § 133).	n.				
1)	Responsive to communication(s) filed on							
2a) □		nis action is non-final.						
3)								
Dispositi	on of Claims							
4)🛛	Claim(s) 1-31 is/are pending in the application	n.						
	4a) Of the above claim(s) is/are withdra	wn from consideration.						
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) 1-31 is/are rejected.							
7)	Claim(s) is/are objected to.							
•	Claim(s) are subject to restriction and/o on Papers	or election requirement.						
	The specification is objected to by the Examine	er.						
	Fhe drawing(s) filed on is/are: a)☐ acce		the Examiner.					
.—	Applicant may not request that any objection to th							
11) 🔲 -	The proposed drawing correction filed on	_ is: a) ☐ approved b) ☐	disapproved by the Examiner.					
	If approved, corrected drawings are required in re	ply to this Office action.						
12) 🗌 🗆	The oath or declaration is objected to by the Ex	caminer.						
Priority u	inder 35 U.S.C. §§ 119 and 120							
13)[Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C	. § 119(a)-(d) or (f).					
a)[☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority document	ts have been received.						
	2. Certified copies of the priority document	ts have been received in	Application No					
* S	3. Copies of the certified copies of the prio application from the International Bu see the attached detailed Office action for a list	ireau (PCT Rule 17.2(a))	,					
14) 🗌 A	cknowledgment is made of a claim for domest	ic priority under 35 U.S.C	C. § 119(e) (to a provisional applicat	ion).				
	The translation of the foreign language pro	• •						
Attachment	•							
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u>	5) Notice of	w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)					
S. Patent and Tr	ademark Office							

DETAILED ACTION

Claim Objections

1. Claims 5, 20, and 24 are objected to because of the following informalities: Claim 5 states "one or more objects one or more data structures". This should read, "one or more objects, and one or more data structures". Claim 20 states "means for adding one or more items from the code model object". This should read, "means for adding one or more items to the code model object". Claim 24 states "one or more objects and one or more data structures". This should read, "one or more objects, and one or more data structures". Appropriate correction is required.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 4-13, and 1 9-31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In regard to Claim 4, the term "encapsulating functionality within the computer programming language" is unclear. Does this mean that the code model objects encapsulate the functionality of the programming language? In regard to Claim 11, the term "objects associated with the computer programming languages" is unclear. Are these the objects presented in Claim 1 or the code model objects introduced in Claim 4? Thus Claims 5-13 are also rejected for being dependent on a rejected base claim. In regard to Claim 19, the term

"means for writing one or more attributes of the code model object" is unclear. Does this mean "writing to" attributes of the code model object, as in updating the value of an attribute, or does this mean adding attributes to the code model object? Thus Claims 20 and 21 are also rejected for being dependent on a rejected base claim. In regard to Claim 22, the term "the code model provides isolation between the programmatic interface and the computer programming languages" is unclear. In Claim 22, the fourth line down states that the computer programming languages *interact* with the programmatic interface. If this is so, how is the term 'isolated' defined here? Clarification is necessary. Thus Claims 23-31 are rejected for being dependent on a rejected base Claim.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-19 and 22-31 are rejected under 35 U.S.C. 102(b) as being anticipated by McInerney et al. (U.S. Patent Number 5,325,533).

In regard to Claim 1, McInerney teaches a plurality of objects that enable interactions with computer programming languages at a semantic level. (Column 3, lines 7-13).

In regard to Claim 2, McInerney teaches an interface, which provides a graphical window for editing a programming language, which allows for interaction of a programming language at a syntactic level (Figure 16).

In regard to Claim 3, McInerney teaches that each object is associated with a specific computer language, and so a group of objects of a specific computer language composes a code model (Column 8, lines 6-21).

In regard to Claim 4, McInerney teaches components as code model objects that represent the functionality of a programming language (Column 8, lines 41-50). Claim 23 corresponds directly with Claim 4 and is rejected for the same reasons as Claim 4.

In regard to Claim 5, McInerney teaches that the components of the code model can represent functions, classes, and data structures (Column 8, lines 41-50). Claim 24 corresponds directly with Claim 5 and is rejected for the same reasons as Claim 5.

In regard to Claim 6, the examiner takes official notice that an object of any kind would have a class from which it was instantiated. Claim 25 corresponds directly with Claim 6 and is rejected for the same reasons as Claim 6.

In regard to Claim 7, McInerney teaches that the component objects do model semantic elements of a programming language (Column 8, lines 41-50). Claim 26 corresponds directly with Claim 7 and is rejected for the same reasons as Claim 7.

In regard to Claim 8, McInerney teaches that the components of the code model can represent functions (Column 8, lines 41-50). Claim 27 corresponds directly with Claim 8 and is rejected for the same reasons as Claim 8.

In regard to Claim 9, McInerney teaches that the components of the code model can represent functions (Column 8, lines 41-50). Claim 28 corresponds directly with Claim 9 and is rejected for the same reasons as Claim 9.

In regard to Claim 10, McInerney teaches an editor for interacting with the components (Column 11, lines 35-46).

In regard to Claim 11, McInerney teaches that components associated with the semantic elements of a programming language are modified to become code model components by creating the components, and associating them with a project component, thus adding code to the project component in order to associate the component with a code model used in a project (Column 21, lines 47-63). Claim 29 corresponds directly with Claim 11 and is rejected for the same reasons as Claim 11.

In regard to Claim 12, McInerney teaches a "data member" component which is an object that contains the functionality of a data member, hence a variable. (Column 8, lines 41-50). Therefore this component models a variable. The data member component is a child of a project component, and hence this variable component can be seen as existing within the project component (Column 3, lines 22-24). Claim 30 corresponds directly with Claim 12 and is rejected for the same reasons as Claim 12.

In regard to Claim 13, McInerney teaches storing the parent of a component as a property (Column 9, lines 10-19). As shown in Figure 3, components are designed in a tree structure, where the parent of the component is stored in the Container property. Claim 31 corresponds directly with Claim 13 and is rejected for the same reasons as Claim 13.

In regard to Claim 14, McInerney teaches retrieving and interacting with the Project component through an interface (Column 20, lines 55-67). Claim 17 corresponds directly with Claim 14 and is rejected for the same reasons as Claim 14.

In regard to Claim 15, McInerney teaches the method of Claim 14, and further teaches interacting with the code model object by: (a) reading one or more attributes of the code model object (Column 20, lines 60-67); (b) invoking one or more methods of the code model object (Column 21, lines 61-63); (c) adding or removing zero or more items from the code model object (Column 21, lines 47-63); and (d) incorporating the code model object into a computer programming project (Column 20, lines 60-67).

In regard to Claim 16, McInerney teaches that items are components, which include the functionality of classes and functions among others (Column 8, lines 41-50).

In regard to Claim 18, McInerney teaches a method of reading and writing to one or more programming languages (Column 21, lines 64-67 and Column 22, lines 1-6).

In regard to Claim 19, McInerney teaches: (a) means for reading one or more attributes of the code model object (Column 21, lines 41-46); (b) means for writing to one or more attributes of the code model object (Column 11, lines 35-46); (c) means for invoking one or more methods of the code model object (Column 21, lines 61-63).

In regard to Claim 22, McInerney teaches a code model associated with a plurality of code model objects (Column 8, lines 6-21), a programmatic interface to interact with programming languages as a semantic level (Column 3, lines 7-13 and Column 20, lines 55-67). The interface is graphical, and provides isolation from the programming language though component objects that can be configured graphically. The interface provides a graphical window in which to edit a programming language, which allows for interaction of a programming language at a syntactic level (Figure 16).

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Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over by McInerney et al. (U.S. Patent Number 5,325,533) in view of Jordan (U.S. Patent Number 5,778,227).

In regard to Claim 20, McInerney teaches the system of Claim 19, and further teaches a means for adding one or more items to the code model object (Column 21, lines 47-63).

Although McInerney does teach a component editor for adding components to the project, McInerney does not explicitly teach a means for removing items from a code model object.

Jordan, however, does teach removing an attribute object from a primary object (Figure 6, item 368). Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have a system for adding one or more items to a code model object as taught by McInerney, where the system further has functionality to remove items from a code model object, as taught by Jordan, since this allows components that are no longer needed to be removed.

In regard to Claim 21, McInerney teaches that items are components, which include the functionality of classes and functions among others (Column 8, lines 41-50).

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Conclusion

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8. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure:

Charisus et al. (U.S. Publication Number 2002/0016954)

Freed et al. (U.S. Patent Number 6,269,473)

Burgess (U.S. Patent Number 6,192,160)

Nguyen et al. (U.S. Patent Number 5,581,203)

Hunt (U.S. Patent Number 6,499,137)

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kenneth A Gross whose telephone number is (703) 305-0542.

The examiner can normally be reached on Mon-Fri 7:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tuan Q Dam can be reached on (703) 305-4552. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 746-7239 for regular

communications and (703) 746-7240 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 305-3900.

KAG

August 11, 2003

TUAN Q. DAM

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